

WHAT IS CLAIMED IS:

1. A light source device for display having an image display means, wherein the image display means forms an image using transmitted light, the light source device comprising:

an LED array having white LEDs or RGB LEDs arranged in array; and

an LED control means for performing a turn-on control on the white LEDs or RGB LEDs in the LED array.

2. A light source device for display according to claim 1, wherein the LEDs on the LED array are arranged in a linear configuration, an arc configuration, a cross configuration, a radial configuration, a circular or polygonal configuration made up of a plurality of similar shapes, or in a spiral configuration.

3. A light source device for display according to claim 1 or 2, wherein the LED control means turns on appropriate white LEDs or RGB LEDs on the LED array and scans the illuminating LEDs across the LED array at high speed in vertical and horizontal directions.

4. A light source device for display according to claim 2 or 3, wherein the display has a position identifying means which measures a position of an observer relative to the display and outputs a corresponding position signal, and the LED control means performs a turn-on control on the white LEDs or RGB LEDs based on the position information so as to

keep an image viewable by the observer.

5. A light source device for display according to claim 2 or 3, wherein the display has a controller operated by the observer, and the LED control means performs a turn-on control on the white LEDs or RGB LEDs based on operation information from the controller so as to change an image viewed by the observer.

6. A light source device for display according to claim 2 or 3, wherein the display has a position identifying means which counts the number of observers, measures positions of the observers relative to the display and outputs corresponding position signals, and the LED control means performs a turn-on control on the white LEDs or RGB LEDs based on the position information so as to keep images viewable by the observers.

7. A light source device for display according to any one of claims 1 through 6, which is used on displays of television sets, game machines, personal computers, cell phones or mobile terminals.